	GAS CONSERVATION C	OMMISSION	1	· · · · · · · · · · · · · · · · · · ·
	TER SANDS LOCAT	ION INSPECTE	GAS W	ELL SUB. REPORT/abd.
	deilled - 7.	-15-8	7	
DATE FILED 6-26-81				
LAND: FEE & PATENTED STATE LEASE NO.	PUBLIC LEASE NO.	U-13633	3	INDIAN
DRILLING APPROVED: 6-29-81				
SPUDDED IN:				
COMPLETED: PUT TO PRODUCING:				
INITIAL PRODUCTION:				
GRAVITY A.P.I.				
GOR:				
PRODUCING ZONES:				
TOTAL DEPTH:				
WELL ELEVATION:				
DATE ABANDONED: LA JULY 15,1982				
DATE ABANDONED: LA July 15,1982 FIELD: WILDCAT 3/86 Natural Butte		,		
UNIT:				
COUNTY: UINTAH			****	
WELL NO. DUCK CREEK #54-9	API N	10. 43-0	047-309	082
LOCATION 1316 FT. FROM (N) (X) LINE, 1324			NW NV	
·				
TWP. RGE. SEC. OPERATOR	TWP.	RGE.	SEC.	OPERATOR
	95	20E	9	BELCO DEVELOPMENT CORP.

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIE

DIII	DESIGNATION	AND	STRIAL	7

GE	OLOGICAL SURVE	Y	, .	U-13633
APPLICATION FOR PERM	AIT TO DRILL D	EEPEN OR PI	UG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DRILL XX	DEEPEN [_	IG BACK [SURFACE*UTE TRIBE 7. UNIT AGREEMENT NAME
b. Type of well . OIL GAS WELL XX OTH	•	SINGLE XX	MOLTIPLE []	8. FARM OR LEASE NAME
WELL WELL & OTH 2. NAME OF OPERATOR	ER	ZONE K.X	ZONE	DUCK CREEK
BELCO DEVELOPMENT COR	DOR A TETOM			9. WELL NO.
3. ADDRESS OF OPERATOR	I ORGITON			54-9
P. O. BOX X, VERNAL,			·	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clear At surface 1324' FWL & 1	ly and in accordance with	any State requiremen	nts.*)	DUCK CREEK-WASATCH
At proposed prod sope	SIO FNE MOYN	<u> </u>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SAME				SEC. 9, T9S, R20E
14. DISTANCE IN MILES AND DIRECTION FROM	M NEAREST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE
2 miles South of Oura	y, Utah		<u> </u>	UINTAH 5 UTAH
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)		16. NO. OF ACRES IN		OF ACRES ASSIGNED HIS WELL 320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 7638'		BY OR CABLE TOOLS
21. ELEVATIONS (Show whether DF, RT, GR,	etc.)			22. APPROX. DATE WORK WILL START*
4758'	Natural GL		5; 5	7-12-81
23.	PROPOSED CASING	G AND CEMENTING	PROGRAM	
SIZE OF HOLE SIZE OF CASIN	G WEIGHT PER FOO	OT SETTING D	ЕРТН	QUANTITY OF CEMENT
17 1/4" 13 3/8"	54.5#	200'	250	sx-To Surf
7 7/8" 4 1/2"	11.6#	7638'		ficient to cover 200'
	- N			ve Green River formation
. .		i	' to	protect oil shale
	1. A			선 진회에서 독취의 문편됩니다.
SEE ATTACHEMNTS FOR:	: :			
l. Locati	on Plat			

- 10 Point Program
- 13 Point Surface Use Plan
- Location Layout
- 5. Topo Maps "A" & "B"
- Diagram "A" BOP Design 6.
- 7. Diagram "B" - Production Facilities Schematic

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout $\overline{24}$.

venter program, if any.	-	
SIGNED J. C. Ball	TITLE Distric	t Engineer DATE 4-10-81
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DAT	APPROVED BY THE STATE
APPROVED BY	TITLE	OF UTAH DIVISION OF OIL, GAS, AND MINING
CONDITIONS OF APPROVAL, IF ANY:		OIL, GAS, AND MINING
		DATE: <u>6-26-81</u>
		BY: My J. Mandy

X = Section Corners Located

PROJECT

BELCO DEVELOPMENT CORP.

Well location, DUCK CREEK #54-9, located as shown in the NW I/4 NW I/4 Section 9, T 9 S, R 20 E, S.L.B. & M. Uintah County, Utah.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR REGISTRATION Nº 3154

UINTAH ENGINEERING & LAND SURVEYING
POBOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1"= 1000'		DATE
1 = 1000		3/24/8
PARTY		REFERENCES
GS SH	WB	GLO Plat
WEATHER		FILE
Clear / Warm		BELCO DEVELOPMENT CORP

** FILE NOTATIONS **

DATE:
OPERATOR: Belos Development Corporation
WELL NO: Duck Creek 54-9
Location: Sec. NWg T. 95 R. 20 E County: Untah
File Prepared: MEntered on N.I.D:
Card Indexed: Completion Sheet:
API Number <u>43-047-30982</u>
CHECKED BY:
Petroleum Engineer: M.J. Munder 6-26-81
Director:
Administrative Aide: 12 of on boundries
APPROVAL LETTER:
Bond Required:
Order No. 187-2 8-20-80 O.K. Rule C-3
Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site
Lease Designation [3ed] Plotted on Map
Approval Letter Written
Hot Line P.I.

June 29, 1981

Belco Development Co. P. O. Box "X" Vernal, Utah 84078

RE: Well No. Duck Creek #54-9 Sec. 9, T. 9S, R. 20E, Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 187-2. As per Order 187-2, this is the gas well for the NW1, of Section 9.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771 Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-30982.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder Petroleum Engineer

14 Minden

MTM/db CC: USGS



Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.			
	GEOLOG	U-13633							
APPLICATION	N FOR PERMIT TO	6. IF INDIAN, ALLOTTER OR TRIBE NAME							
1a. TYPE OF WORK	· · · · · · · · · · · · · · · · · · ·	<i>3</i> 2 <u>-</u> , -				SURFACE*UTE TRIBE			
DRI	LL 🏻	DEEPEN [] PLI	JG BACK		7. UNIT AGREEMENT NAME			
b. TYPE OF WELL					;				
WELL W	ELL XX OTHER		ZONE XX	MULTIPLE ZONE	<u>' </u>	8. FARM OF LEASE NAME			
2. NAME OF OPERATOR					!	DUCK CREEK			
	PMENT CORPORA	TION		,		9. WELL NO.			
3. ADDRESS OF OPERATOR						54-9 % 25-			
	VERNAL, UTAH					10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL (R At surface 7 2 2	eport location clearly and i	accordance with	h any State requireme	nts.*)		DUCK CREEK-WASATCH			
1325	E TMD & TOTO	TIVL C/I	1111/4		.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zor	ne SAME					() 			
	SAME					SEC. 9, T9S, R20E			
14. DISTANCE IN MILES	AND DIRECTION FROM NEARE	ST TOWN OR POST	OFFICE*			12. COUNTY OR PARISH 13. STATE			
2 miles Sout	th of Ouray, U	tah				UINTAH UTAH			
15. DISTANCE FROM PROPO LOCATION TO NEARES	DSED*	-	16. NO. OF ACRES IN	LEASE		OF ACRES ASSIGNED			
PROPERTY OR LEASE I	LINE, FT. g. unit line. if any)	1324		.		320			
18. DISTANCE FROM PROI	OSED LOCATION*		19. PROPOSED DEPTH		20. потл	RY OR CABLE TOOLS			
OR APPLIED FOR, ON TH	RILLING, COMPLETED, IS LEASE, FT.		7638'	*	RO	tary			
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*			
1 2 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	4758' Nat	ural GL				7-12-81			
23.			G AND CEMENTING	PROGRAM	1				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OOT SETTING D	ЕРТН		QUANTITY OF CEMENT			
17 1/4"	13 3/8"	54.5#	200'		250	sx-To Surf			
7 7/8"	4 1/2"	11.6#	7638'		Suf	ficient to cover 200'			
					abo	ve Green River formation			
	1		I	!	to	protect oil shale			
					•				
						မြန်မျှ သူ့ နေးမှ မြော့			
SEE ATTACHEN	NTS FOR:					THE PERSON NAMED IN COLUMN TO THE PE			
]	l. Location P				TOTE	CIXIN SIBLE			
2	2. 10 Point P				158/B	CODE CITY			
	3. 13 Point S	urface U	se Plan						

- 4. Location Layout
- Topo Maps "A" & "B" 5.
- Diagram "A" BOP Design
- Diagram "B" Production Facilities SchepMISION OF

OIL, GAS & MINING

	is to deepen or plug back, give data on present productive zone and proposed new productive e pertinent data on subsurface locations and measured and true vertical depths. Give blowout
SIGNED Ball SIGNED J. C. Ball	TITLE District Engineer DATE 4-10-81
(This space for Federal or State office use)	APPROVAL DATE
IRRAULA WI Mailly	

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

TO OPERATOR'S COPY

NOTICE OF APPROVAL

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

of the of to

District Supervisor

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

	Harr directions and state
PROJECT IDENTIFICA	TION
Operator Belco	Development Corp.
Project TypeGa	s Well Development - Natural Buttes
Project Location _	1324' FWL 1316' FNL Section 9, T. 9S, R. 20E
Well No. 54-9	Lease No. U-13633
Date Project Submi	ttedApril 13, 1981
FIELD INSPECTION	DateMay 28, 1981
Field Inspection Participants	Craig Hansen USGS, Vernal
	Lynn Hall BIA, Ft. Duchesne
	Rick Schatz Belco
Related Environmen	tal Documents:
guidelines. This	ne proposal in accordance with the categorical exclusion review proposal would not involve any significant effects and, there-present an exception to the categorical exclusions.
June 8, Date Pr	epared Environmental Scientist
I concur	FOR E. W. GUYNN DISTRICT ENGINEER
11121	10/1 1/1/1/-

Typing Out 6-9-81

Typing In 6-8-81

Criteria 516 DM 2.3.A	<u>Feder</u> Corre- spondence (date)	Phone check (date)	gency Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
Public health and safety	B12 6-11-81					•	2	5.28-81 2,46	
Unique charac- teristics	-				•		2	246	•
Environmentally controversial	. 1				·		2	246	
. Uncertain and unknown risks						2	ン	246	
. Establishes precedents							2	24.6	
. Cumulatively significant	/						2	2,4,6	
. National Register historic places	/		·					·	•
. Endangered/ threatened species	1	-						·	•
. Violate Federal, State, local, triba! law	1								

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

- 1. Surface Management Agency Input
- 2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
- Lease Stipulations/Terms
- 4. Application Permit to Drill
- 5. Operator Correspondence
- 6. Field Observation
- 7. Private Rehabilitation Agreement

RECOMMENDED STIPULATIONS FOR BELCO #54-9

- Paint production facilities a tan color to blend in with the natural surroundings.
- 2. Flowlines will follow existing access roads.
- 3. Pile topsoil on southwest corner of location to insure rehabilitation efforts.
- 4. Low water crossings will be placed on access roads and access will be graveled to allow safe travel.
- 5. Operator will adhere to standard BIA surface stipulations.



United States Department of the Interior BUREAU OF INDIAN AFFAIRS

UINTAH AND OURAY AGENCY

Fort Duchesne, Utah 84026 (801) 722-2406 Ext. #202

IN REPLY REFER TO: Land Operations, SMC

June 4, 1981

Mr. Craig Hansen U.S. Geological Survey Conservation Division P.O. Box 1037 Vernal, Utah 84078



Dear Mr. Hansen:

Enclosed are Negative Declarations and Environmental Analysis for 12 Belco Development Corporation Well locations identified by Well No's 55-9, 54-9, 51-8GR, 52-16, 43-17GR, 44-17GR, 48-17GR, 46-17GR, 18-20GR, 47-17GR, 58-8GR, and 50-17GR.

The Operator's Surface Use and Operating Plan is adequate with the modification made at the on-site inspection and recorded in the U.S.G.S. Environmental Assessments.

The general stipulations (BIA) on file with your office and stipulations listed under item 4, Mitigating Measures, of each Environmental Analysis, are conditions of approval.

Sincerely yours,

Superintendent

Enclosure

UNITED STATES GOVERNMENT

Memorandum

TO : Acting Realty Officer

DATE: June 9, 1981

FROM

Soil Conservationist

SUBJECT:

Environmental Analysis and Negative Declarations

Enclosed are Environmental Analysis and Negative Declarations

for Belco Development Corp. to drill gas wells near Ouray, Utah.

R. Lynn Hall

FY: '81-94, '81-100, '81-95, '81-101, '81-96, '81-102, '81-97, '81-103, '81-98, '81-104, '81-99, '81-105

7

Ulintah and Durny Ajuncy <u>Diversiontal Analysis and Negative Declaration</u>

Belco Development Corp. peopes to drill as gas will 52-9 to a proposed depth of 1638 feet to createst approachedly 0.4 siles of new sours real; and approach approachedly none siles of witting assess road. The will use to be located approachedly 2 sites south of Outray total to the Native Young 1924 FML & 1316 FML 2. Description of the twicerests The area to used for livestock grazing, wildlife, scenic qualifries, huntring oil and gas drilling and production to the exposery is rolling hills with sandy negats and eroded valleys. The expectation constants of Indian ricegrass, 4-winged saltbush, rabbit brush, shadecale, russian thistle, galletta prickly pear. the area to used as withing batter for X berr, X suchue the prickly pear. the all minds peaset X bro sap grose, afthe grose, the operation of the prickly pear. the cleare is detectable by barring old grosy values and are may severe. Total severe range from -tot? during the values to 160% in the sames. The approximate small procipitation is the same from -tot? during the values to 160% in the sames. The approximate small procipitation is	1.	Description of Proposals
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2 mine south of Ouray tend in the Night Sec. 9 rt 95 20E SIM. 2. Description of the Indicatests: 1324 FML 6 1316 FML The area is used for livestock grazing, wildlife, scenic qualities, hunting oil and gas drilling and production the area is livestock grazing, wildlife, scenic qualities, hunting oil and gas drilling and production the second of the sandy messas and eroded valleys the results of Indian ricegrass, 4-winged saltbush, rabbit brush, shadscale, russian thistle, gallette, prickly pear, The area is used as vibility brush, shadscale, russian thistle, gallette, prickly pear, The area is used as vibility brush, shadscale, russian thistle, gallette, prickly pear, The area is used as vibility of the gross, Live gross, Live gross, Live appearance of the species, gallon asylo, other rabbit, coveres, reptiles, raptors, various rodente species, gallon asylo, other rabbit, coveres, reptiles, raptors, various rodente species, desert birds. The districts is districted by averaged arony various and was day asserts. Toward desert birds arony form a 475 during the various to 1676 in the assert. The approximate small procipitation is 6-8 inches, the elevation at 4758 feet. 1. Endrowmatal inputs Desire withing the state of an arone of the salt state and access road. The distriction of the salt and recoval of vaporation will: A Description willia habitat for Xamar, Xamala sense road, the districtions of the salt and recoval of vaporation willia habitat for Xamar, Xamala sense road, the distriction, prince-jostic state and arony distriction of the salt state and will come scallested salt evolum baring the construction and production of the salt shads and will come scallested salt evolum baring the construction and production of the salt has activity in the area will increase significantly. This of the scallested salt evolum baring the construction and production of the salt has activity in the area will increase significantly. This of the scallested and access, there is a high, protected, all increases, productio		to a proposed depth of 7638 feet; to construct approximately 0 4 miles of new access road;
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and gas drilling and production The topograph is Tolling hills with sandy messas and eroded valleys The waveston consists of Indian ricegrass, 4-winged saltbush, rabbit brush, shadscale, rusaian thistle, galletta, prickly pear. The area is used as withits heaten for X, ecr. X manblaw	2.	Description of the Environment:
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Indian ricegrass, 4-winged saltbush, rabbit brush, shadscale, russian thistle, galletta, prickly pear. The area is used as within to bait to for X ver. X status, _ib		and gas drilling and production . The topography is rolling .
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the arch is used as withing natural for X loca, X shelpe,lbk,, base, X small stimuls,pheasent X dows,app grosse,nuffic grosse,blue grosse,bald expley, golden exple, other rabbit, covotes, reptiles, raptors, various redente. Species, desert birds The cliente is directarized by having old story waters and ware any asserts. Tothers there rapp from -407 during the various to 1659 in the surfect. The approximates small precipitation is6-8 inches. The elevation is _4758fect. 1. Environmental logation: During construction of the well dust and exhaut emissions will affect air quality. Soil and westerion will be re- moved from 4.5 forms of land compiled by the well sits and access read. The discurbance of the soil and recoval of vegetation will: A. Destroy wildlife habitest for Xdeer, X straigue, _alk, _beer, X small secols, _pheasest X dows, _sage grouse, ruffle grosse, _blue grosse, X rabbit, _golden exples, _bald exple, other _various _rodent_ and _reptiles Species, _desert _birds. 3. Secole from productions X rappiled for livestock graving, _ltripsted cropland, _ttripsted particlend, _prime timberland, _pinion-juriper land. C. Secult in the invasion of arnual weeks and will cause accellerated soil erosion. During the construction and pro- during of the well hasen activity in the arraw will increase significantly. This is expected to significantly in- crosses, X possing of wildlife, X discustorers of wildlife, X weekshies of property, _Daft of firmscod X litter access increases, X possing of wildlife, X discustorers of wildlife, X weekshies of property, _Daft of firmscod X litter access increases, X possing of wildlife, X discustorers of wildlife, X weekshies of property, _Daft of firmscod X litter access increases, X possing of wildlife, X discustorers of wildlifes, X weekshies of property, _Daft of firmscod X litter access increases, X possing of wildlife, X weekshies of property, _Daft of firmscod X litter access increases, X possing of wildlife, X weekshies,		Indian ricegrass, 4-winged saltbush, rabbit brush, shadscale, russian
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surface areas according to BIA specifications. (6) Comply with operating plan as modified at on-site evaluation and recorded in USGS EA# 412-81. LEASE NO. U-13633		operation and maintenance or roads culverts pipolines and un fortition
as modified at on-site evaluation and recorded in USGS EA# 412-81. LEASE NO. U-13633		(3) lake measures to prevent or reduce erosion, and reveretate all disturbed
LEASE NO. U-13633	•	surface areas according to BIA specifications. (6) Comply with operating plan
FY: '81-95 LEASE NO. U-13633 WELL NO. Belco 54-9		
		FY: '81-95 LEASE NO. U-13633 WELL NO. Belco 54-9

5. Unavoidable alverse effect None of the adverse effects listed in item \$3 above onn be avoided in a practical menner except those which were mitigated in item #4 above.

6. Relationship between short term and longtons productivity:

As long as oil or gas wells are producing and the access roads are retained there will be a total loss of production on the land and the Environmental Departs will continue to affect the surrounding area. Morrelly oil and cas wells produce from 15 to 30 years. After the wells stop producing it is standard policy to restore the surface to near its original condition. Occasionally the site occupied by the well or road can be restored to produce as much as it originally produced, but most of the time it can not be restored to its original productive capacity. Therefore, the land surface productive ability will be personantly demayed.

7. Irreversible and Irretrievable commitment of Matural Resources:

There are two irreversible and irretrievable resources counit in this action.

- A. Oil or Gas: Oil and gas is a non-rene-able resource. Once it has been removed it can never be replaced.
- B. Damage to the land surface: There are three causes of damage to the soil surface due to oil or gas wells and road construction. (1) Gravel is normally bouled onto the site as a pad foundation for equipment and traffic to operate on. Gravel has low fertility and low waterholding capacity. Therefore, after the site is restored the gravel must either be removed, or incorporated into the natural landscape. (2) Chemicals are often either accidently spilled or intentionally applied to the site for weed and dust control. Generally the chemicals are crude oil or production water, which may contain as much as 20,000 PPM of salts. Once chemicals become incorporated in the soil they are difficult to resove and interfere with the soils ability to produce vegetation. (3) Soil compaction occurs where the site is subject to stormy set weather and traffic from heavy trucks and equipment. . Each of the above items cause soil damage and after the site is restored the productive ability of the soil will be damaged permanently.

8. Alternatives:

- A. No. program This alternative refuses the authorization of the application for penalt to drill. This action would not allow the operator to enter upon the land surface to drill for oil or gas. Because the minerals usually connot be developed without encroachest on the surface, the mineral estate is nomally and traditionally designated as dominant, and the surface constrain subservient. The sineral operator's conduct is generally prescribed only by the rule of reasonableness and the limitations that he is not permitted to act in a wenton or negligent monner. Within their confines, the operator has considerable latitude in the necessary use of the surface to produce and develop the mineral estate. Therefore if the application for permit is not signed, the operator would undoubtoily initiate court proceedings against the surface owner, in this case the Ute Tribe and the bureou of Indian Affairs. Historically the courts have usheld the right of the mineral owner to develop the mineral resource regardless of the surface owners desire, therefore the operators rights will likely be upheld if B.I.A. nofuses to sign the application for pensit to drill this well.
- B. Sign the application for pareit to drill. This alternative authorises the operator to drill for oil or yes as prescribed in the application, providing he complies with stipulations which are considered reasonable as specified in paragraph 4 above under mitigating measures.

Consultations	
Craig Hansen - USGS	
Rick Schatz - Belco Development Corp.	

in Hall B

susmental im	pacts	
X x	Listed threatened or endergozed species	
X x	_ Critical wildlife hebitest	•
Yes X No	Mistorical or cultural resources	
Yes No	Air quality aspects (to be used only if project is in or adjacent to a Class I	area of attainment)
Yes No	Other (if necessary)	
Page aurica :		

11. Declaration:

It has been determined that the drilling of the slows well is not a Packeral action significantly affecting the quality of the environment as would require the preparation of an environmental statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (c).

A Lynn Hall 6-4-81

L.W. Colley

وسور ریسی امنوا	U. S. GEO CCICAL SURVEY - CONSERV	ATION DIVISION
FROM: :	DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH	
ro :	DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH	
SUBJECT:	APD MINERAL EVALUATION REPORT	LEASE NO. <u>U-13633</u>
OPERATOR:	Belco	WELL NO. 54-9
LOCATION:	C NW 2 sec. 9, T. 95., R. 20	E, SLM
	Mintah County, Utah	
6	graphy: lintah surface reen River 2025' Vasatch 5425' TD 7640'	
2. Fresh	Water:	
	1 be account in t	1. 11. 1

TO

Fresh water may be present Green River sandstones.

3. Leasable Minerals:

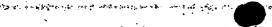
Oil Shale: Green River. the Mahogany zone should occur at ~ 2750' depth.

Saline Minerals: Green River. These may occur in a 800' rock interval immediately overlying the Mahogany. Oil 16as: lower Green River, Wasatch

4. Additional Logs Needed: Adaguate

- 5. Potential Geologic Hazards: None expected
- References and Remarks:

regory W. Wood Date: 4-21-81



riga a dibilian meneraka intan menarah pinggapangan periodi selah dibilingga penggapangangangan anggapangan penggapangan pe Penggapangan penggapan penggapangan penggapangan penggapangan penggapangan penggapangan penggapangan penggapangan p 10 POINT PROGRAM



1. GEOLOGIC SURFACE FORMATION:

Uinta formation of the Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta ·

Surface

Green River

2025

Wasatch

5425'

ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Uinta

Sand & shale, possible water

Green River

Sand & shale, possible gas and oil shows

Wasatch

Sand and shale, anticipate gas.

PROPOSED CASING PROGRAM:

Surf Csg: 13 3/8" 54.5#, K-55 to 200', cement to surface

Prod Csq: 4 1/2" 11.6#, K-55 to TD, will use enough cement to cover 200' over top of Green River formation

MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL: 5.

The operators minimum specifications for pressure control equipment are as follows: 10", 3000 PSI hydraulic doublegate BOP or the equivalent. Pressure tests of BOP to 1000# will be made prior to drilling surface plug and on each trip for bit.

TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS: 6.

It is proposed that the hole will be drilled to approx. 4000' with 3% KCL water in order to clean the hole. From 4000' to TD it is planned to drill the well with mud. mud system will be a water based, gel-chemical mud, weighted up to 10.5 ppg as required for gas control.

AUXILIARY EQUIPMENT TO BE USED:

Auxiliary equipment to be used will be a 2", 2000 PSI choke manifold and kill line, stabbing valve, kelly cock and visual mud monitoring.

8. TESTING, LOGGING AND CORING PROGRAMS:

No coring or drill stem testing has been scheduled for this well. The logging will consit of DLL, CNL, FDC and Gamma Ray w/caliper.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

It is not anticipated that abnormal pressures or temperatures will be encountered, nor that any other abnormal hazards such as H2S gas will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Anticipated starting date is 7-12-81. Drilling operations should be complete 2 1/2 weeks after they commence.

13 Point Surface Use Plan

DUCK CREEK FIELD

ЭÇ

DC 54-9

DC 55-9

DC 52-16

Wasatch Gas Wells

1. EXISTING ROADS

- A. For the location of the proposed well sites and existing roads, see the Topo maps marked "B", attached to the APD's. All the proposed wells are located in Sections 16 and 9', T9S, R2OE, Uintah County, Utah. All wells are within 2 to 3 1/2 miles of Ouray, 'Utah.
- B. The county road running south from Ouray, Utah takes you into the immediate vicinity of these wells. See attached Topo maps for proposed access routes.
- C. The proposed access roads are outlined in detail on the Topo Maps marked "B" attached to each individual APD.
- D. See Topo Maps "B".
- E. Not applicable.
- F. Access to the proposed well sites will be over the existing county road except for the proposed access roads. The proposed access roads will be crowned and ditched so as to accomodate rig traffic.

2. PLANNED ACCESS ROADS

See the Maps attached to each APD.

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The planned access roads will comply with the general specifications as outlined.

- A. Proposed access roads will be 32 foot crown roads, usable 16 feet on either side of the centerline, with drain ditches along either side of the proposed roads, where it is determined necessary in order to handle any run off from the normal weather conditions prevalent to this area.
- B. Maximum grades of the proposed access roads will be 3% and will not exceed that amount.
- C. No turnouts are planned for the length of the proposed access roads, so additional cut disturbances will be kept to a minimum. Line of site vision is such that turnouts are unnecessary.
- D. Drainage design of the proposed roads will avoid unnecessary disturbance of the natural run off patterns. Drainage will be implemented so as not to cause siltation or accumulate any debris.
- E. Surfacing material shall be the native borrow material from the cut areas and will be used to stabilize the road surfaces and the locations. No other material for construction is anticipated.
- F. No fences will be crossed in order to access the proposed locations; No cattle guards will be needed.

G. The roads have been centerline staked for the full distance of the proposed routes.

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3. LOCATION OF EXISTING WELLS

- A. Water wells-None
- B. Abandoned wells-None
- C. Temporarily abandoned wells-None
- D. Disposal wells-None
- E. Drilling wells-DC 4-17, Gas well.
- F. Producing wells- Phillips RJ 1 & 2, DC 41-8, DC 20-9, DC 8-16GR, DC 10-16GR, DC 18-16, DC 7-16GR, DC 17-16GR, DC 6-16GR, DC 16-16GR, DC 3-16GR, ND 4-21GR, DC 10-21GR, DC 11-21GR, NPU 34-Y, NBU 19-21, ND 8-15, ND 9-15, ND 6-15GR, ND 2-15GR, DC 5-16, DC 15-16, DC 14-16,
- G. Shut in wells-none
- H. Injection wells-None
- I. Monitoring wells-None

LOCATION OF EXISTING AND PROPOSED FACILITIES

- A. Existing production facilities located within one mile of the proposed well are:
 - Tank batteries-Section 16, DC 7-16GR, DC 3-16GR, DC 14-16GR, DC 5-16GR, DC 11-16GR, DC 6-16GR, DC 16-16GR. Section 21, ND 4-21, CIGE 28-21-9-20.
 - Production Facilities: Section 8, DC 41-8GR, Section 17, DC 24-17GR, Section 20, Sun 2 S.O., CIGE 32, NBU 21-20B, Section 21, ND 11-21GR, ND 10-21GR, ND 4-21GR, NBU 19-21B, CIGE 28 (NBU 34-Y) Section 16, DC 8-16GR, DC 7-16GR, DC 17-16GR DC 3-16GR, DC 16-16GR, DC 14-16GR, DC 15-16GR, DC 5-16GR, DC 11-16GR, DC 6-16GR, DC 18-16, DC 10-16GR.
 - 3. Oil Gathering Lines: Buried oil line from DC 15-16GR to DC 5-16GR, oil line from 8-16 and 17-16 to 7-16, and from ND 9-15 to 8-15.
 - 4. Gas gathering lines- Northwest Pipeline's gas gathering lines.
 - 5. There are no injection lines in this area.
 - 6. There are no disposal lines in the area.
- B. Attached to each individual APD is a diagram marked "B" showing the production facilities to be utilized in the event of production of gas. All production facilities, tank batteries, separators, de-hys, etc., will be kept on the location pad.

13 POINT SURFACE USE PLAN
PAGE #3

Construction materials will be native borrow or cut exposed on the site and will be consistent with accepted oilfield standards and good engineering practices.

A three strand barbed wire fence will be constructed and maintained around any disposal pits during the drilling and completion phase of the well. When these pits are no longer needed or within 90 days, they will be covered over with native borrow material and rehabilitated to conform with the provisions of the rehabilitation agreement of BIA standards.

Guard rails will be constructed around the wellhead to prevent access to livestock or wildlife.

Rehabilitation of the pits is discussed above. The remaining pad not used for producing operations will be recontoured to conform with the natural grade and covered with topsoil saved on the site. This area will be reseeded as per BIA specifications.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Water to be used to drill these wells will be hauled by truck from the White River. Access point for the water will be near the White River Bridge, Section 4, T9S, R20E, Uintah County, Utah. Permit for this water will be purchased from the Bureau of Indian Affairs, prior to the drilling operations.
- B. Water will be hauled by truck (Liquid Transport of Duchesne, Utah, PSC #1969) on the above described access routes. See access routes on Topo Maps "B", attached to each APD. No new roads or pipelines will be needed for this purpose.
- C. No water wells will be drilled.

6. SOURCE OF CONSTRUCTION MATERIALS

- A. All construction materials for these locations and their access roads will be native borrow rock and soil, accumulated during the construction. No additional road gravel or pit lining materials are anticipated at this time, but if they are required, appropriate action will be taken to acquire them from private sources after notification is given to the proper regulatory agencies.
- B. Items described in part "A" are from BIA regulated lands.
- C. See part "A".
- D. No other access roads are required, other than described in Item 2.

7. METHODS OF HANDLING WASTE DISPOSAL

A. Drill cuttings, drilling fluids, salts, chemicals, and produced fluids will be disposed of in the reserve pits on the location pads.

- - B. See "A" above for disposal of drilling fluids.
- C. See "A" above for disposal of produced water.
- D. A portable chemical toilet will be provided for human waste during the drilling phase.
- E. Garbage and other waste materials will be contained in a wire mesh cage and then disposed of in an approved waste disposal facility.
- F. Immediately after the drilling rig moves off the location, the remaining trash and garbage will be collected and hauled away by truck. The reserve pit will be fenced on the open side to protect domestic animals and wildlife. This pit will be utilized during the completion and testing phase of the well for storage of produced fluids.

8. ANCILLARY FACILITIES

No airstrips or camps are planned for these wells.

9. WELL SITE LAYOUT

See the Location Layout sheets attached to the individual APD's which show the following items:

- A. Cross section of the pad, showing details of the cuts and fills.
- B. Location of the reserve pits, pipe racks, living facilities and topsoil stockpile.
- C. Rig orientation, parking areas and access road.
- D. Pits will be lined to conserve water and will be fenced on the fourth side at the completion of operations. Proper NTL-2B notices will be filed if the wells produce water.

10. PLANS FOR RESTORATION OF SURFACE

In the event of a dry hole, pits will be allowed to dry and will then be backfilled and waste pits will be backfilled. The location will be restored to as near the original contour as feasible and then reseeded.

1. Upon completion of the testing phase of the well, the areas not needed for access to the well and used for producing operations will be filled and recontoured to blend with the surrounding topography and the stockpiled soil redistributed over the unused disturbed area. After final plugging and abandonment of the well, the entire disturbed area will be contoured and topsoil spread over any previously disturbed area.

2. The revegetation of the drill site area and access not needed to carry on production operations will be reseeded with a seed mixture recommended by the BIA. It will be performed at a time of the year when the moisture content of the soil is adequate for germination. The Lessee agrees that all of the clean up and restoration activities shall be done in a diligent and timely manner and in conformity with the above mentioned Items 7 and 10 (1).

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- 3. All pits will be fenced prior to disposal of any waste material and the open side of the reserve pit will be fenced before removing the rig from location. The fences will be maintained in good condition until Item (1) is started.
- 4. Any oil or condensate on any temporary pit will be removed in a timely manner. Overhead flagging or netting will be installed on any sump pit used to handle well fluids during the producing life of the well.
- 5. Restoration activities will begin within 90 days after the completion of the well. Once completion activities have begun, they will be completed within 30 days. All wellhead and surface equipment will be painted to blend with the environment, according to BIA specifications.

11. OTHER INFORMATION

Topography of the general area is relatively flat, rolling terrain, consisting of clay and stabilized sand dunes.

Vegetation in the area consists of four-wing saltbrush, tumble-weed, cotton-horn horsebrush, spiny hop sage, curly grass, match-weed, greasewood and a sparse population of Indian ricegrass.

Livestock grazing, mineral exploration and production are the only surface use activities in the area. All lands involved with these locations are controlled by the BIA.

There is no water in the immediate vicinity of these locations, the Green River runs 1 to 3 miles to the north of these locations and also 3 to 4 miles to the west. No occupied dwellings or known archeaological or cultural sites are in this area.

12. Belco Development Corporation's representative for these operations will be Mr. J. C. Ball, District Engineer, P. O. Box X, Vernal, Utah, 84078, telephone #1-801-789-0790.

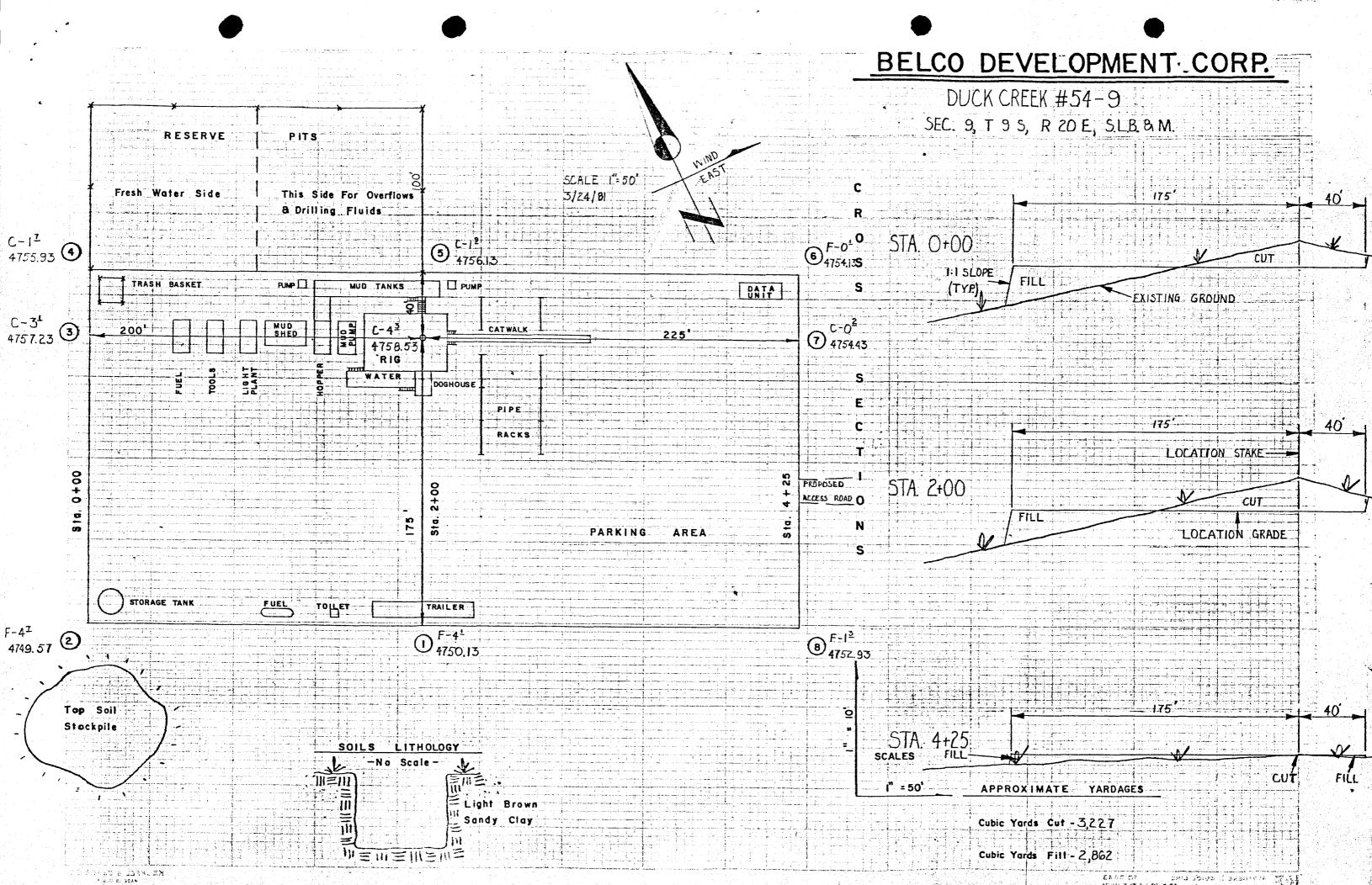
13. CERTIFICATION

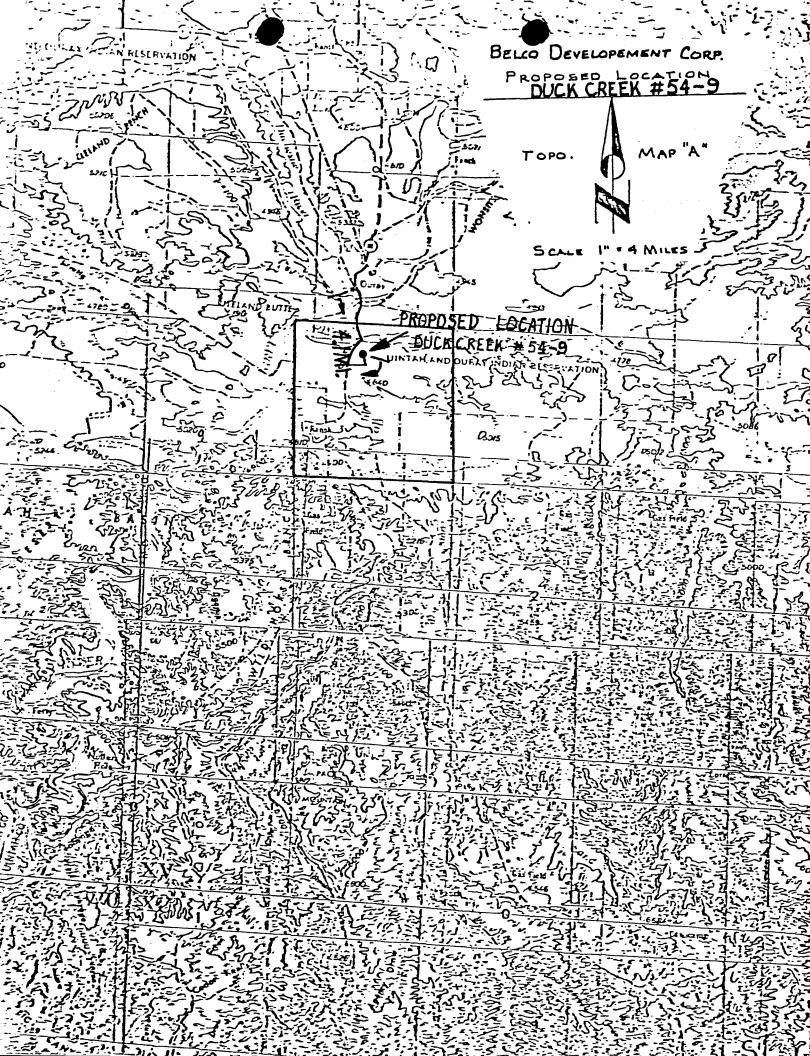
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill sites and access routes; that I am familiar with the conditions which presently exist, that the statements made in this Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Belco Development Corporation, it's contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

DATE 4/10/8/

J. C. BALL

District Engineer





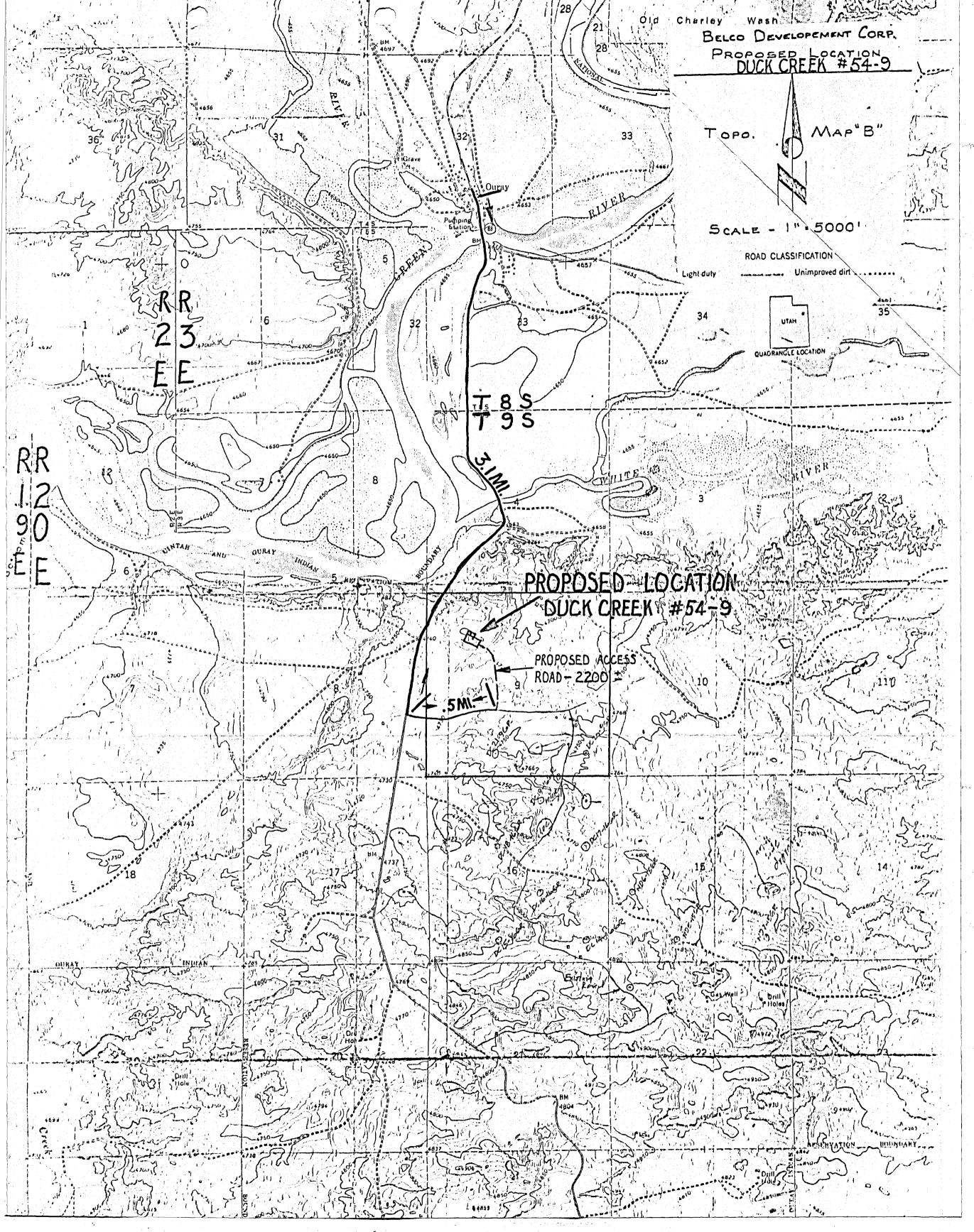
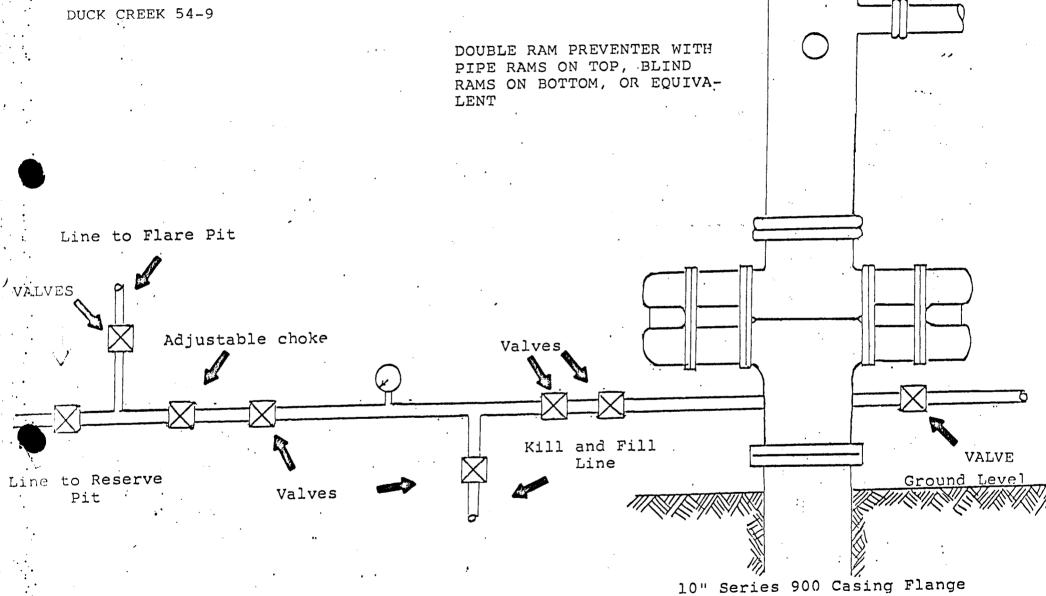
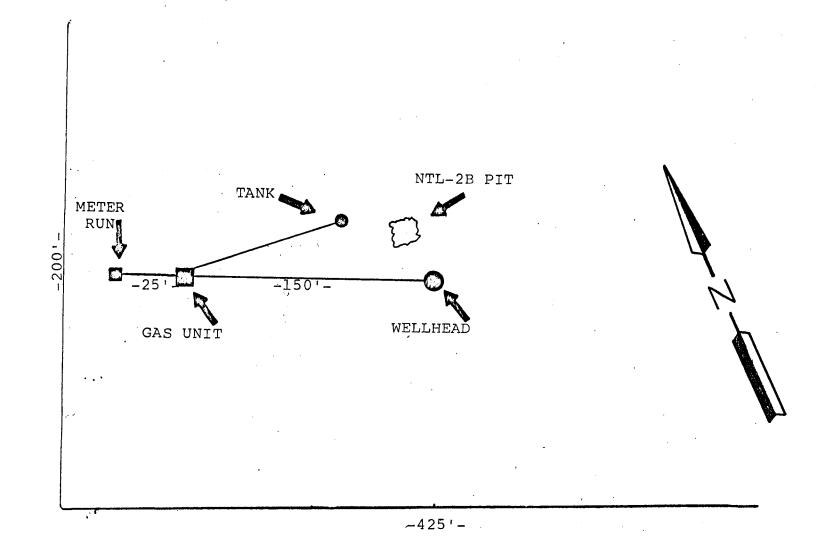


DIAGRAM "A" BELCO DEVELOPMENT CORPORATION BOP DESIGN







Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 3, 1982

Belco Development Corporation P. O. Box X Vernal, Utah 84078

Re: See attached

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist Well No. Duck Creek 56-8GR Sec.8, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #58-8GR Sec. 8, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #54-9 Sec. 9, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #52-16GR Sec. 16, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #43-17GR.
Sec. 17,-T. 9S, R. 20E.R. 408.
Uintah County, Utah.

Well No. Duck Creek #45-17GR Sec. 17, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #47-17GR 7-17GR Sec. 175-17. 98, R. 20E. 20E. Uintah County, Utah, Stah

Well No. Duck Creek #49-17GR Sec. 17, T. 9S, R. 20E.
Uintah County, Utah

Well No. Natural Duck #17-20GR Sec. 20, T. 9S, R. 20E Uintah County, Utah

Well No. Natural Duck #19-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #21-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #23-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah Well No. Duck Creek #57-8GR Sec. 8, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #59-8GR Sec. 8, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #55-9 Sec. 9, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #13-17GR Sec. 17, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #44-17GR.
Sec. 17, T. 9S, R. 20E. R. 20G.
Uintah County, Outah, Phab

Well No. Duck Creek #46-17GR Sec. 17, T. 9S, R. 20E. Uintah: County, Utah

Well No. Duck Creek #48-17GR
Sec. 17, T. 9S, R. 20E.
Uintah County, Utah

Well No. Natural Duck #16-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #18-20Gr Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #20-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #22-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #15-21GR Sec. 21, T. 9S, R. 20E. Uintah County, Utah

Belco Development Corporation

Belco

March 8, 1982

State of Utah Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

Attn: Cari Furse

RE: See attached list

Dear Ms Furse,

All wells as listed on the attached sheet are being considered by Belco Development Corporation for drilling sometime this year. No activity has taken place on any location as of this date. Belco will notify you when the location is spudded. The Duck Creek 52-16GR well is still waiting on USGS approval.

Sincerely,

Kathy Kautson Engineering Clerk

/kk

cc: File

MAR 11 1982

DIVISION OF OIL, GAS & MINING Well No. Duck Creek 56-8GR Sec.8, T. 9S, R. 20E.
Uintah County, Utah

Well No. Duck Creek #58-8GR > Sec. 8, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek 54-9 Sec. 9, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #52-16GR Sec. 16, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #43-17GR V Sec. 17, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #45-17GR ✓ Sec. 17, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #47-17GR
Sec. 17, T. 9S, R. 20E.
Uintah County, Utah

Well No. Duck Creek #49-17GR > Sec. 17, T. 9S, R. 20E. Wintah County, Utah

Well No. Natural Duck #17-20GR Sec. 20, T. 9S, R. 20E
Uintah County, Utah

Well No. Natural Duck #19-20GR ~ Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #21-20GR ~ Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #23-20GR > Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #57-8GR Sec. 8, T. 9S, R. 20E.
Uintah County, Utah

Well No. Duck Creek #59-8GR Sec. 8, T. 9S, R. 20E. Uintah County, Utah

Well No. Duck Creek #55-9 Sec. 9, T. 9S, R. 20E. V Uintah County, Utah

Well No. Duck Creek #13-17GR Sec. 17, T. 9S, R. 20E. ✓ Uintah County, Utah

Well No. Duck Creek #44-17GR Sec. 17, T. 9S, R. 20E
Uintah County, Utah

Well No. Duck Creek #46-17GR Sec. 17, T. 9S, R. 20E. ✓ Uintah County, Utah

Well No. Duck Creek #48-17GR Sec. 17, T. 9S, R. 20E. ✓ Uintah County, Utah

Well No. Natural Duck #16-20GR Sec. 20, T. 9S, R. 20E.
Uintah County, Utah

Well No. Natural Duck #18-20Gr Sec. 20, T. 9S, R. 20E.
Uintah County, Utah

Well No. Natural Duck #20-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #22-20GR Sec. 20, T. 9S, R. 20E. Uintah County, Utah

Well No. Natural Duck #15-21GR Sec. 21, T. 9S, R. 20E. Uintah County, Utah

Oil and Gas Operations 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

July 15, 1982

Belco Development Corporation P.O. Box X Vernal, Utah 84078

Re: Rescind Applications for Permit to Drill Well Nos. 54-9 and 55-9 Section 9-T9S-R20E Uintah County, Utah Lease No. U-13633

Gentlemen:

F

The Applications for Permit to Drill the referenced wells were approved on July 10 and July 13, 1981. Since that date no known activity has transpired at the approved locations. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced applications without prejudice. If you intend to drill at these locations at a future date, new applications for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved locations of the wells will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

E. W. Guynn District Oil & Gas Supervisor

State O&G
State BLM
MMS-Vernal
Well File
APD Control
DH/dh